

Title (en)
Multipolar two-rotor motor

Title (de)
Mehrpoliger Zweiläufermotor

Title (fr)
Moteur birotor multipolaire

Publication
EP 0746084 B1 19990203 (FR)

Application
EP 96107856 A 19960517

Priority
FR 9506309 A 19950529

Abstract (en)
[origin: EP0746084A1] The motor has first(3) and second(5) multi-polar coaxial rotors each having a number of magnetic dipoles(7) arranged parallel to the axis of rotation(9,11) of the rotors. Has two stator parts(13,15) and an intermediate part(17) between the first and second parts(13,15). Each part(13,15,17) has a stator opening(19,20,21) aligned with the axis of rotation of the rotors(3,5). The stator parts(13,15) have stator polar airgaps situated either side of the stator openings(19,20). The airgaps define a succession of teeth(36) and airgap(35) on the edge of the stator openings(19,20). The first rotor(3) is mounted so as to rotate between the first stator part(13) and the intermediate part(17). The dipoles(7) of the first rotor(3) are arranged with respect to the teeth on the first stator part(13) and to the intermediate stator part airgap. The second rotor(5) is mounted so as to rotate between the stator part(15) and the intermediate stator part(17). The dipoles of the second rotor(5) are arranged with regard to the teeth on the second stator part(15) and to the intermediate stator part airgap.

IPC 1-7
H02K 16/00; **H02K 16/02**; **H02K 37/12**; **G04C 3/14**

IPC 8 full level
G04C 3/00 (2006.01); **G04C 3/14** (2006.01); **H02K 16/00** (2006.01); **H02K 16/02** (2006.01); **H02K 37/12** (2006.01)

CPC (source: EP KR US)
G04C 3/146 (2013.01 - EP US); **H02K 16/00** (2013.01 - EP US); **H02K 16/02** (2013.01 - EP KR US); **H02K 37/12** (2013.01 - EP US); **H02K 37/125** (2013.01 - EP US)

Cited by
US5917257A; DE19821835A1; MY120041A; EP0845850A1; US6316858B1; WO9850998A1

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CH DE GB LI NL SE

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EP 0746084 A1 19961204; **EP 0746084 B1 19990203**; CN 1084953 C 20020515; CN 1147717 A 19970416; DE 69601480 D1 19990318; DE 69601480 T2 19990902; FR 2734962 A1 19961206; FR 2734962 B1 19970801; HK 1012131 A1 19990723; JP 3611923 B2 20050119; JP H0919117 A 19970117; KR 100363909 B1 20030211; KR 960043431 A 19961223; MY 114922 A 20030228; SG 50731 A1 19980720; TW 309670 B 19970701; US 5751086 A 19980512

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